

# weber REP 922

- Durable concrete for castings over 50mm layerthickness
- Good saltfrost resistance
- High compressive strength

## About this product

Repair concrete 0-12mm is a dry product. Mix only with water to obtain a ready-to-use easy-flowing concrete mass. Provides very good salt-freeze resistance in a hardened state. Compressive strength in easy-flowing consistency C50/60. REP 922 is included in Weber's concrete repair system. Repair class R4 according to EN 1504-3.

## Area of use

Repair Concrete is used in concreting work and concrete repairs where a very high-grade resistant concrete is required, e.g. structures which are exposed to frost in conjunction with salting, concrete structures subjected to attack by chemicals and floors, which experience exceptional wear. Repair Concrete is available in two versions with aggregate of 0-4 mm and 0-12 mm. 0-4 is mainly for layer thicknesses 10-50 mm and 0-12 for ones above 50 mm. When concrete is laid for bonding with surrounding concrete, the latter should have a strength corresponding to at least C28/35. Because of its light flowing consistency, Repair Concrete is especially suitable for airtight reinforcement.

## Substrate type

- Concrete
- Mineral
- Brick
- Steel
- Stone

## Constraints

- Should not be used in temperatures below +5°C

## Pretreatment

1. Loose, porous or greasy impurities such as joint-filled concrete, casting skin and paint should be removed using a concrete cutter or similar. Steel trowelled and other smooth surfaces should be roughened. 2. At latest the day before casting the substrate should be watered thoroughly. For topping the substrate should be slightly absorbent. 3. Water-cut concrete and broken-up raw concrete surfaces do not require splat-terdashing. Normal concrete surfaces may be splat-terdashed using Weber REP 05 betoheft. Very smooth and hard surfaces may require epoxy priming.

## Mixing

Repair concrete 0-12mm is mechanically mixed for 5 minutes with about 1.5 liters of water per bag of 20 kg, whereby about 10 liters of concrete are obtained in easy-flowing consistency. No additional additives are required. Mixing is done with flat mixer or drill / whisk.

## Product specification

Material consumption	20 kg / m <sup>2</sup> at 10mm layerthickness
Recommended layer thickness	>50mm
Recommended water content	approx 1,5 L / 20 kg
Mixed volume	approx 10 l / 20 Kg
Application temperature	> 5 °C
Pot life (Operating time)	approx 30min
Curing start	approx 6 hours
Consistency	S4 according to EN 206
Binder	Portlandcement
Cement type and class	Cem II/ A-V 52,5 N according to EN 197-1
Ballast	Natural gravel/sand 0-12mm
Adhesion strength 28 days	>2,0 MPa according to EN 1541
Compressive strength class	C50/60 according to EN 206-1
Compressive strength 1 day	>20 MPa according to EN 12390-3
Compressive strength 3 days	>45 MPa according to EN 12390-3.
Compressive strength 7 days	>55 MPa according to EN 12390-3
Compressive strength 28 days	>65 MPa according to EN 12390-3. For accredited strength testing report at 28 days, contact Weber.
Flexural strength 28 days	>8 MPa according to EN 1015-11
Exposure class	X0, XC4, XS3, XD3, XF4, XA1 according to EN 206-1
Frost resistance	Very good, according to SS 13 72 44 1A (salt environment)
Modulus of elasticity	>20 Gpa according to EN 13412
Waterproof	Yes, according to SS 137214
Air content	5-8% according to EN 1015-7
Density	approx 2300 kg/m <sup>3</sup> according to EN 12190
Water cement ratio	<0,38
Storage conditions	Storage time for bags on a plastic-covered pallet is approx. 12 months from date of packing. Store in a dry place.
Package	20 kg bag 1000 kg bigbag Bulk

## Work instructions

Mix Repair Concrete. Fill formwork. For larger thicknesses each layer should be compressed about 30 cm. First use a thin vibrator rod and make repeated downward thrusts. For horizontal castings use a "vibro-bar" or "vibro-bridge". Protect the casting immediately against rapid dehydration.

### **After-treatment**

Because of Repair Concrete's low water-cement ratio, curing with water or protection against early withdrawal of moisture should be effected immediately. If no after-treatment such as painting is to be carried out, membrane curer should be applied to the surface without delay. If the surface is being after-treated, Weber CMS 8030 (shrinkage barrier, which is non-film forming) should be applied the following day or when watering has finished or on removal of plastic sheeting.

### **Please observe**

At temperatures lower than +5 °C, the strength growth stops. Also note castings against cold concrete surfaces. Use warm concrete and protect the castings from cooling. Castings must not be exposed to frost before the concrete has reached a strength of 5 MPa. Do not cure with water at the risk of minus degrees.

### **Safety regulation**

Always read the applicable safety data sheets, use personal protective equipment and follow the workplace safety regulations.

### **Recycling**

Please visit your local weber website to find information on waste material and packagings.

### **Disclaimer**

As there are different conditions at every opportunity, Weber can not be held responsible for anything other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.